

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANTS: Dario NERI,
Barbara CARNEMOLLA,
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Patrizia CASTELLANI,
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Giovanni NERI,
Laura BORSI

(ii) TITLE OF INVENTION: ANTIBODIES TO THE ED-B
DOMAIN OF FIBRONECTIN, THEIR CONSTRUCTION AND
USES

(iii) NUMBER OF SEQUENCES: 12

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: HEDMAN, GIBSON & COSTIGAN, P.C.
(B) STREET: 1185 Avenue of the Americas
(C) CITY: New York
(D) STATE: New York
(E) COUNTRY: USA
(F) ZIP: 10036-2646

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb
storage
(B) COMPUTER: IBM PS/2
(C) OPERATING SYSTEM: DOS
(D) SOFTWARE: Word Perfect 5.1

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:
(B) FILING DATE:
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 9610967.3
(B) FILING DATE: May 24, 1996

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Costigan, James V.
(B) REGISTRATION NUMBER: 25,669
(C) REFERENCE/DOCKET NUMBER: 515-4132

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: (212) 302-8989
- (B) TELEFAX: (212) 302-8998

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 4 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Ser Leu Pro Lys
1

(3) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 12 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Gly Val Gly Ala Phe Arg Pro Tyr Arg Lys His Glu
1 5 10

(4) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 17 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CAGGAAACAG CTATGAC 17

(5) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:4:

CTTGGTCCCT CCGCCGAATA CCACMNNMNN MNNMNNMNNM
NNAGAGGAGT TACAGTAATA GTCAGCCTC 69

(6) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:5:

ATTGCTTTTC CTTTTGCGG CCGCGCCTAG GACGGTCAGC
TTGGTCCCTC CGCC 54

(7) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 43 base pairs
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Gly Gly Cys Leu Thr Asp Thr Leu Gln Ala Phe Thr Asp
1 5 10
Gln Leu Glu Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile
15 20 25
Ala His Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile
30 35
Leu Ala Ala His
40

(8) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8 amino acids
- (B) TYPE: amino acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Pro Val Val Leu Asn Gly Val Val
1 5

(9) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Pro Phe Glu His Asn Leu Val Val
1 5

(10) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) ORIGINAL SOURCE:

(A) STRAIN: CGS1

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
1 5 10
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Val Ser Gly
15 20 25
Phe Thr Phe Ser Ser Tyr Ala Met Ser Trp Val Arg Gln
30 35
Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ala Ile Ser
40 45 50
Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
55 60 65
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
70 75

Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr
80							85				90	
Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Ser	Leu	Pro	Lys	Trp	Gly
				95					100			
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Arg				
105						110						

(11) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) ORIGINAL SOURCE:

- (A) STRAIN: CGS2

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln
1					5				10			
Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly
					15		20		25			
Phe	Thr	Phe	Ser	Ser	Tyr	Ala	Met	Ser	Trp	Val	Arg	Gln
					30			35				
Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ala	Ile	Ser
	40				45			50				
Gly	Ser	Gly	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
					55		60		65			
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr
					70		75					
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr
				80		85		90				
Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Gly	Val	Gly	Ala	Phe	Arg
				95			100					
Pro	Tyr	Arg	Lys	His	Glu	Trp	Gly	Gln	Gly	Thr	Leu	Val
	105				110				115			
Thr	Val	Ser	Arg									
	120											

(12) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) ORIGINAL SOURCE:

(A) STRAIN: CGS1

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala
 1 5 10
 Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser
 15 20 25
 Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro
 30 35
 Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn
 40 45 50
 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser
 55 60 65
 Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln
 70 75
 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Ser Pro
 80 85 90
 Val Val Leu Asn Gly Val Val Phe Gly Gly Gly Thr Lys
 95 100
 Leu Thr Val Leu Gly
 105

(13) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) ORIGINAL SOURCE:

(A) STRAIN: CGS2

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala
 1 5 10
 Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser
 15 20 25
 Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro
 30 35
 Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn
 40 45 50
 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser
 55 60 65
 Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln
 70 75
 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Ser Pro
 80 85 90

Phe Glu His Asn Leu Val Val Phe Gly Gly Gly Thr Lys
95 100
Leu Thr Val Leu Gly
105